B. AREA OF REVIEW (AOR) AND CORRECTIVE ACTION (CA) PLAN
40 CFR 146.85

[redacted]

Facility Name: [redacted]

[redacted]

Facility Contact: Ronald T. Evans, tevans@capturepointllc.com
1101 Central Expy S, Suite 150, Allen, TX 75013
832-300-8225

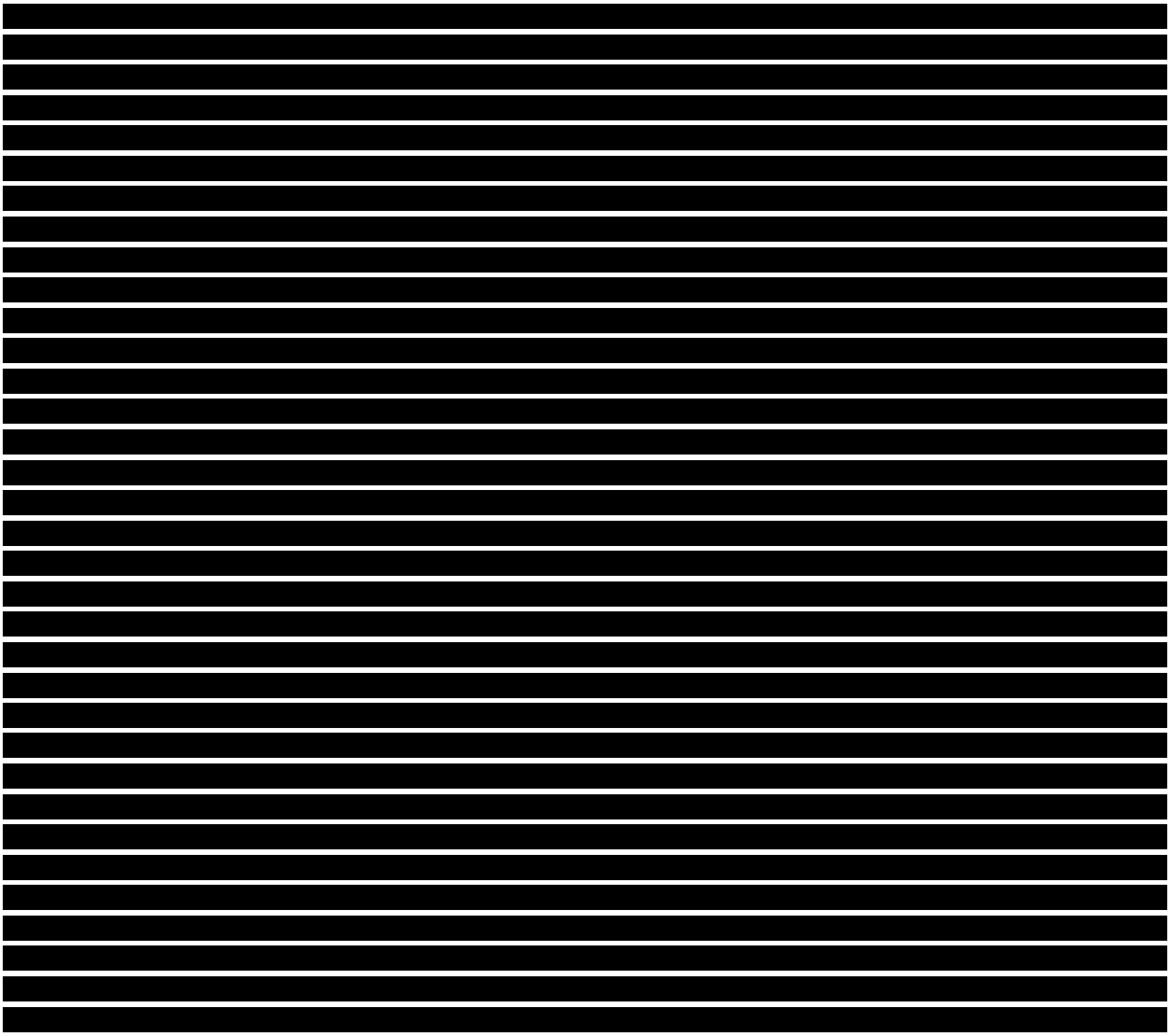
Well Locations: [redacted]

[redacted]

Table of Contents

List of Appendices

List of Tables



List of Figures

1.0 COMPUTATIONAL MODEL APPROACH

[redacted]

[redacted]

Table 1: Modeled Considerations

Process	Modeled
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

1.1 MODEL BACKGROUND

1.1.1 Static Model – Petrel

[redacted]

Table 2: LAS files used in the Static Model

WELL NAME	UWI	STATUS	LOGS IN PETREL
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]

WELL NAME	UWI	STATUS	LOGS IN PETREL
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]

[redacted]

1.2.1 Dynamic Model – Reveal

[redacted]

[redacted]

[redacted]

[redacted]

Regarding the finite difference method, there are many publications that offer very detailed explanations of how this method is implemented. Documentation provided by Petroleum Experts specific to Reveal is included in **Appendix 1** of this study.

1.2 SITE GEOLOGY AND HYDROGEOLOGY

[redacted]

[redacted]

1.3 MODEL DOMAIN AND INPUTS

[redacted]

Figure 5 shows the skeleton grid in 3D and the model domain information is summarized in **Table 3**.

Table 3: Model domain information.

[redacted]			
[redacted]			
[redacted]			
[redacted]			
[redacted]	[redacted]	[redacted]	
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]

[redacted]

[redacted]

2.0 MODEL INPUT AND SOURCES

[redacted]

Table 4 – Available logs for analysis

API Number	Well Name	Lithology Logs	Porosity Logs	S_{w*}
[redacted]				

**Water Saturation*

Table 5 – Log Type Identification

LOG Acronym	Log Type	Unit of Measurement	Log Measurement
[redacted]			

LOG Acronym	Log Type	Unit of Measurement	Log Measurement
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]

[redacted]

Table 6 – Available core data for analysis

[redacted]	[redacted]	[redacted]	[redacted]
[redacted]			
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]			
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]

[redacted]

[redacted]

2.1 MODEL LAYERING

[redacted]

Table 7: Model Layering

[redacted]

[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

[redacted]

[redacted]

[redacted]

2.2 ROCK TYPES

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

2.3 POROSITY

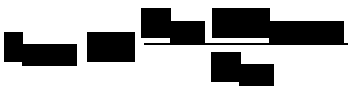
[redacted]

[redacted]

[redacted]

[redacted]

[redacted]



[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]

[redacted]

[redacted]

[redacted]

Table 9 – [redacted]

Depth (feet)	Porosity (%)
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]

[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

Table 10: Porosity inputs into the Model by layer:

Sparta[redacted]			
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]			
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]			
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

2.4 PERMEABILITY

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

Table 11: [redacted].

[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]

[redacted].

2.5 ROCK COMPRESSIBILITY

[redacted]

[redacted]

2.5.1 Formation Compressibility

[redacted]

[redacted]	[redacted]
[redacted]	[redacted]
[redacted]	[redacted]

[redacted]

[redacted]

[redacted]

2.5.2 Formation Fluid Density, Compressibility and Viscosity

Density

[redacted]

[redacted]

Viscosity

[redacted]

Table 13: [redacted]

[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]

[redacted]

2.6 CONSTITUTIVE RELATIONSHIPS

[redacted]

[redacted]

[redacted]

Table 14: [redacted]

[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]

2.7 BOUNDARY CONDITIONS

[redacted]

[redacted]

2.8 INITIAL/STATIC CONDITIONS

[redacted]

Table 15: [redacted]

[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

Table 16: [redacted]

[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

Table 17: [redacted]

[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

[redacted]

2.9 OPERATIONAL INFORMATION

[redacted]

Table 18: [redacted]

[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]

Table 19: [redacted]

Table 20: [redacted]

2.10 FRACTURE PRESSURE AND GRADIENT

[redacted]

Table 21: [redacted]

[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]

[redacted]

Table 22: [redacted]

[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

*[redacted]

Table 23: [redacted]

[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

*[redacted]

Table 24: [redacted]

[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

*[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

2.11 CHARACTERISTICS OF THE CO_2 STREAM

2.11.1 CO_2 Density and Compressibility

[redacted]

[redacted]

Table 25: Property inputs for CO_2

Parameter	Input Unit
[redacted]	[redacted]
[redacted]	[redacted]

[redacted]

[redacted]

[redacted]

2.11.2 Viscosity

[redacted]

2.11.3 CO_2 and Formation Interactions

[redacted]

[redacted]

2.11.4 Solubility

[redacted]

[redacted]

3.0 COMPUTATIONAL MODELING RESULTS

3.1 PREDICTIONS OF MODEL BEHAVIOUR

[redacted]

Table 26: [redacted]

[redacted]

Time Series Plots sub section **Appendix 4.1 in Appendix 4*

Table 27: [redacted]

[redacted]

*[redacted]

Table 28: [redacted]*

[redacted]

*[redacted]

[redacted]

3.2 MODEL CALIBRATION AND VALIDATION

[redacted]

[redacted]

4.0 MODEL RESULTS

4.1 PREDICTED POSITION OF THE CO_2 PLUME

[redacted]

- [redacted]

[redacted]

Table 29: Absolute Modeled Plume Extent at 20-years – Top Layer

[redacted]

[redacted]

- [redacted]

Table 30: [redacted]

[redacted]

4.1.1 Ultimate Plume Extent

[redacted]

[redacted]

[redacted]

4.1.2 Plume Migration Post Closure

[redacted]

[redacted]

Table 31: [redacted]

[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]

Table 32: [redacted]

[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]

Table 32: [redacted]

[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]

[redacted]

4.2 PREDICTED POSITION OF THE PRESURE FRONT

[redacted]

- [redacted]
- [redacted]
- [redacted]

[redacted]

4.2.1 Net Pressure Build-up

[redacted]

4.2.2 Pressure Stabilization Post Shut-in

[redacted]

[redacted]

5.0 AREA OF REVIEW

[redacted]

[redacted]

5.1 CRITICAL PRESSURE CALCULATIONS

[redacted]

[redacted]

5.2 AOR DELINEATIONS

[redacted]

6.0 CORRECTIVE ACTION PLAN

[redacted]

6.1 TABULATION OF WELLS WITHIN THE AOR

[redacted]

6.1.1 Wells within the Area of Review

[redacted]

6.1.1.1 Data Bases and Search Protocol

[redacted]

6.1.1.2 Well Evaluation

[redacted]

6.1.2 Wells Penetrating the Confining Zone

[redacted]

[redacted]

[redacted]

6.2 PLAN FOR SITE ACCESS

[redacted]

6.3 CORRECTIVE ACTION SCHEDULE

[redacted]

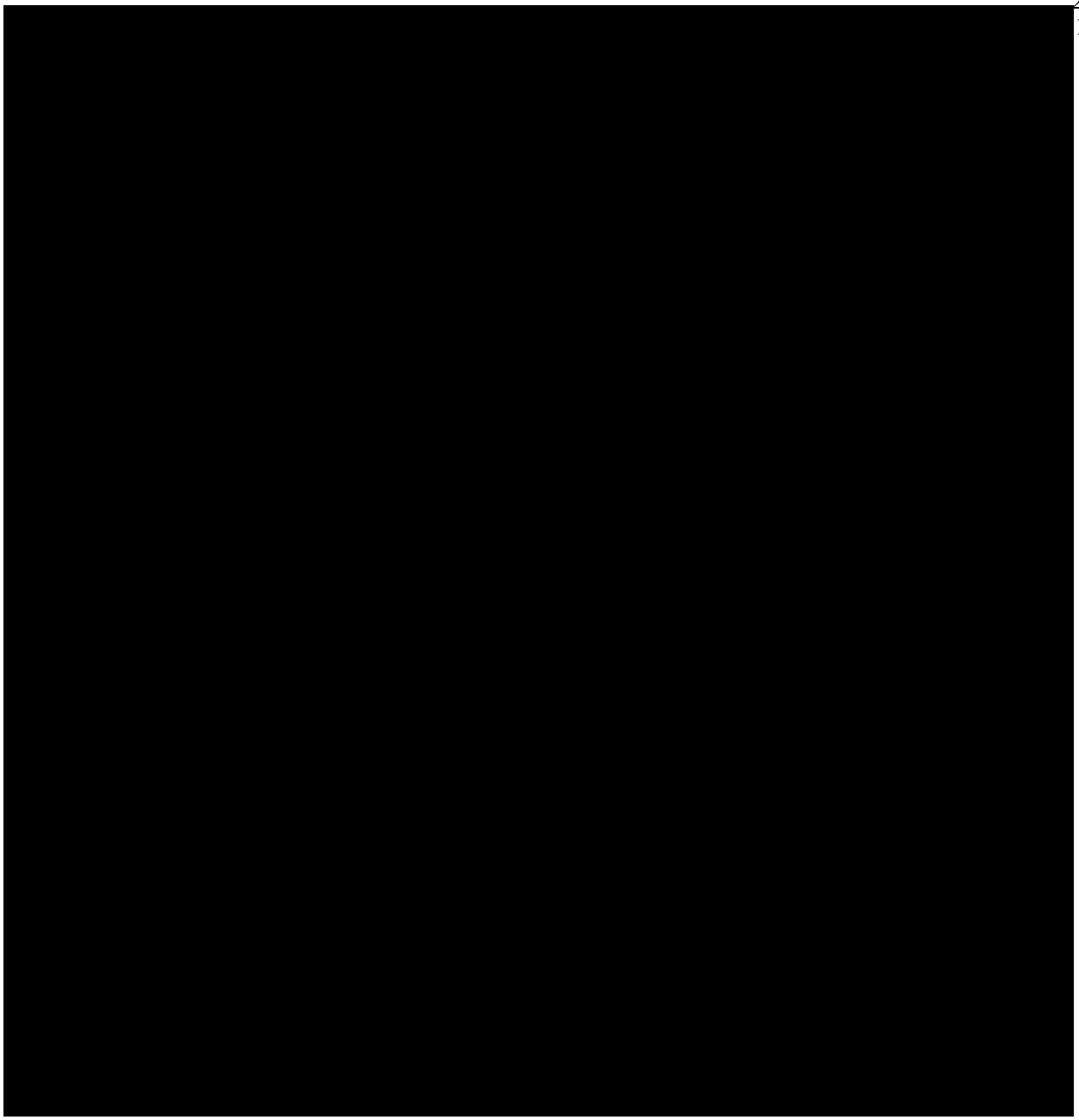
[redacted]

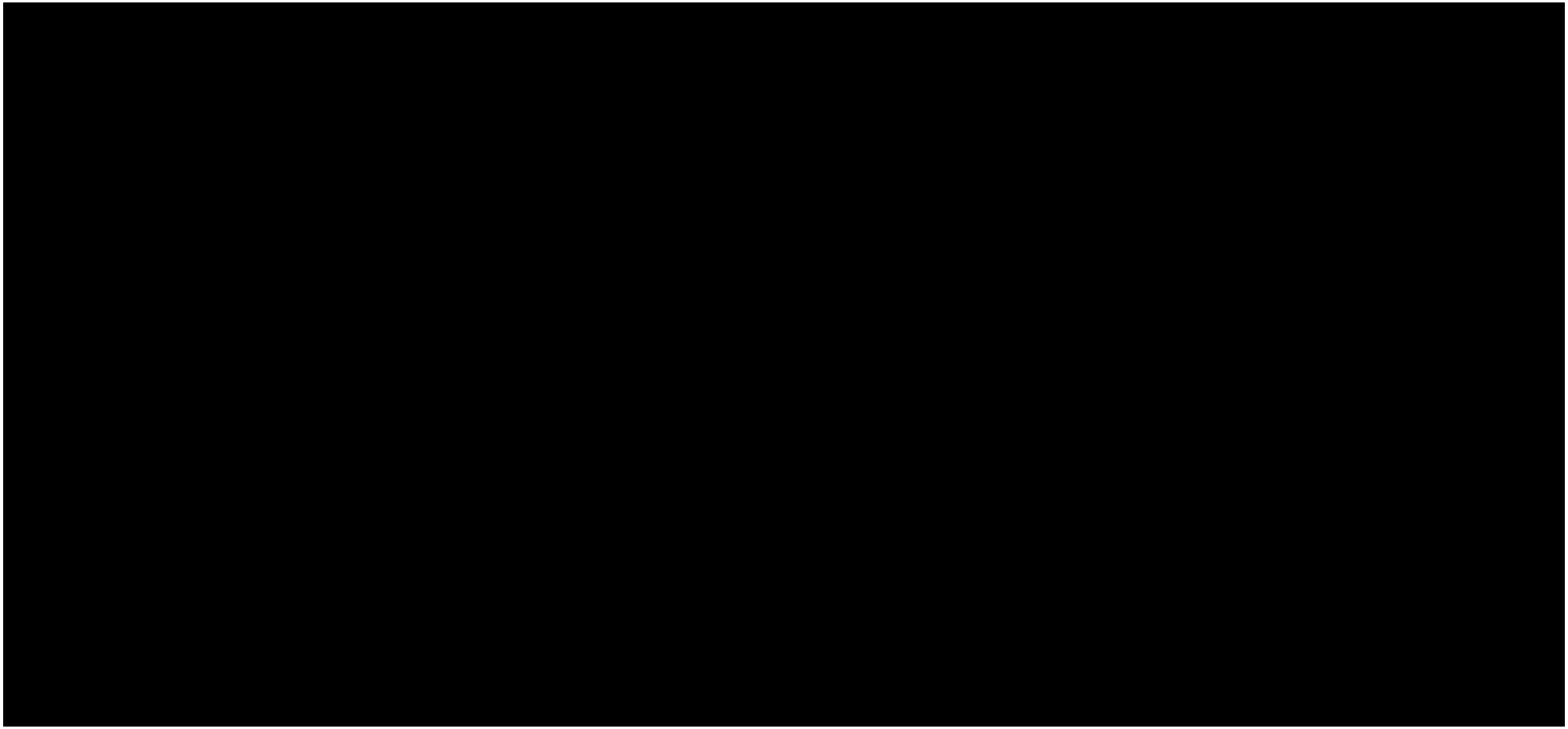
[redacted]

[redacted]

[redacted]

[redacted]





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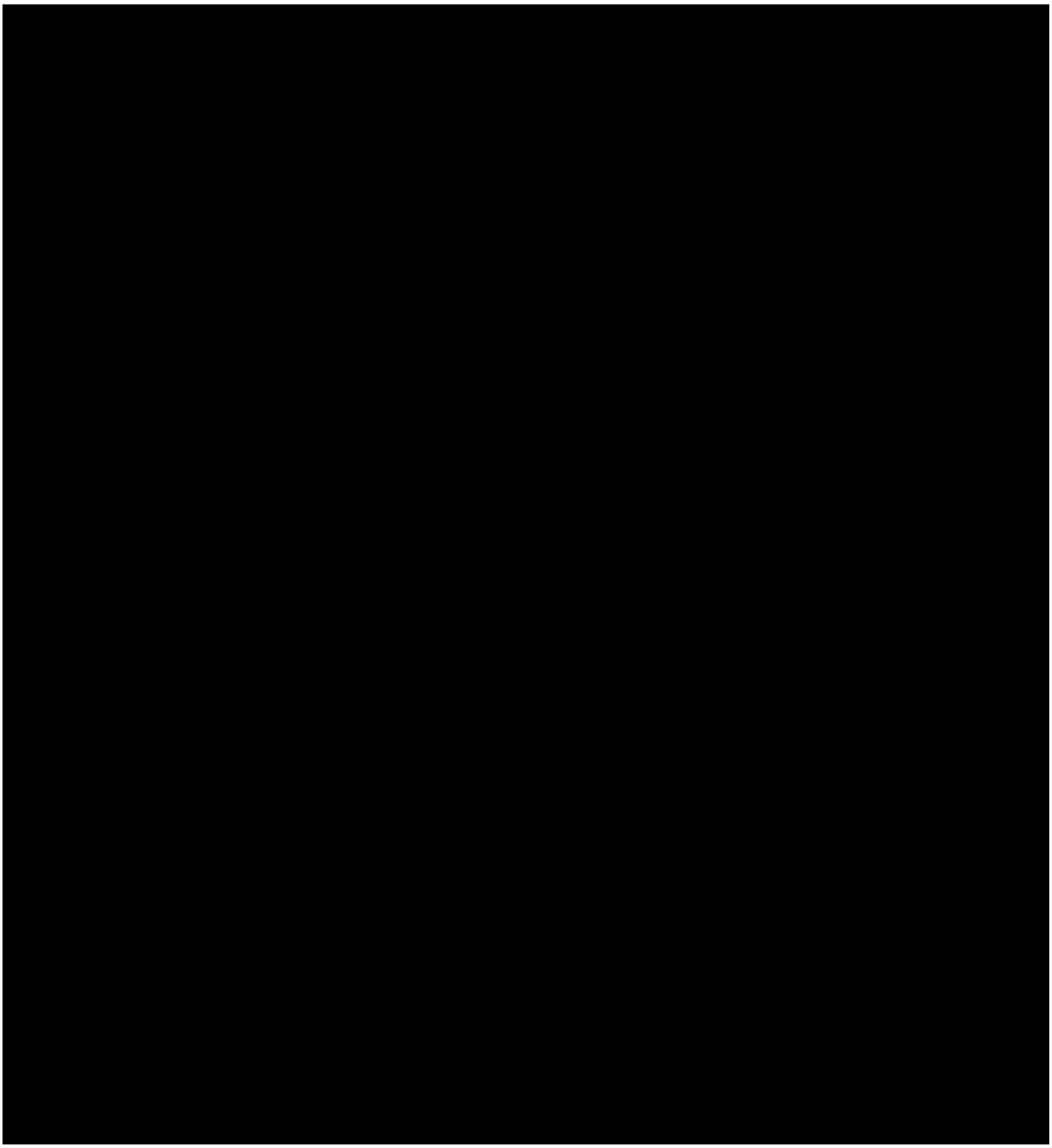
[redacted]

[redacted]

information. Backfill wellhead and clean location.



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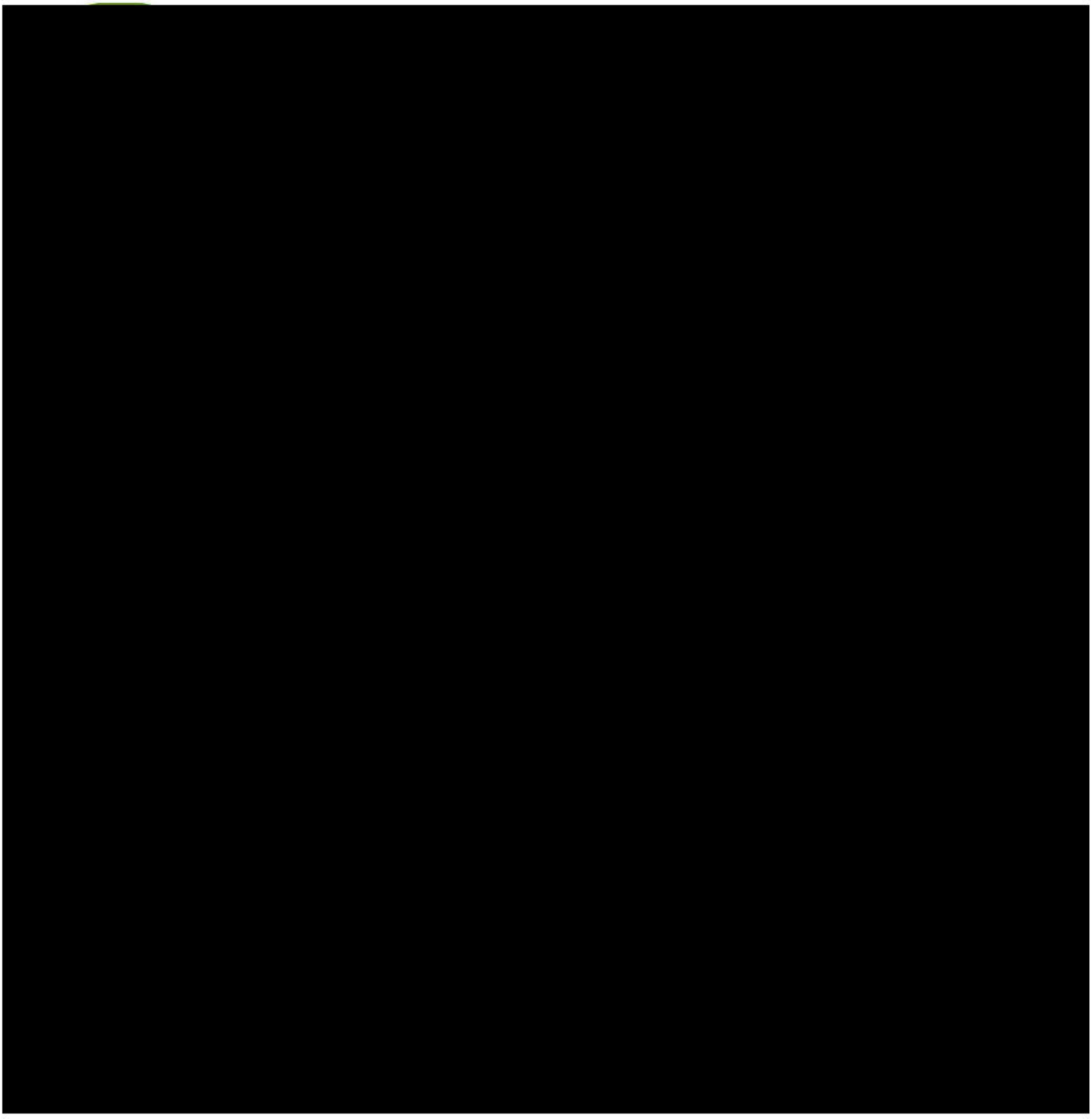

7.0 RE-EVALUATION SCHEDULE AND CRITERIA

[redacted]

[redacted]

[redacted]

- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]

[redacted]

[redacted]

7.2 Triggers for AoR Reevaluations Prior to the Next Scheduled Reevaluation

[redacted]

- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]
- [redacted]

- [redacted]
- [redacted]

[redacted]

[redacted]

[redacted]

[redacted]